CONFIDENTIAL

			25X1A 25X1A	8-69 25X1
2	5X1A		28 February 1969	
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	Attention:		Contracting Officer	25X1A
	Subject:	Contract	W/O 69-18	25X1A
	Enclosure:		on Program for Destruct Co	
	Dear Sir:			
25X1A 25X1A	Program for D	estruct Covers f s submitted in a	or Final Report for the Western to the Western Tor use with Moduccordance with requirement	"B" Systems.
	THE NATIONAL DEFENSE OF THE MEANING OF THE ESPI SECTIONS 793 AND 794.	NS INFORMATION AFFECTI OF THE UNITED STATES WITH ONAGE LAWS, TITLE 18, U.S. ITS TRANSMISSION OR T ENTS IN ANY MANNER TO IS PROHIBITED BY LAW.	IIN C., HE	25X1A OR
	Copy to:	w/encl.		
	25X1A			

EXCLUDED FROM AUTOMATIC REGRADING DOD-DIR 5200.10 DOES NOT APPLY.

Serial: MV-0-719

FINAL REPORT

WEIGHT REDUCTION PROGRAM

OF

DESTRUCT COVERS

25X1A	For Use With	Mod "B" Systems	
	Prepared Under		
25X1A	Contract	W/O 69-18	

The first four sets of explosive destruct covers for use with Mod "B" systems were shipped in October 1968. Each set consisted of a right side assembly and a left side assembly.

The basic cover was made of 303 stainless steel; with explosives, each cover weighed 11.75 pounds, or a total destruct system weight of 23.5 pounds.

After the shipping requirements of October were met, a weight reduction program was initiated. The first step was to change the material of the basic cover from stainless steel to aluminum. Two right side assemblies were built and tested. This choice was made because the right side cover contains more explosive material than the left side; also, building two right side covers, rather than one of each, provided two covers to test at worst conditions.

Fabrication was completed by 16 December 1968. The weight of the new right side assemblies, with explosive, was reduced to 5.6 pounds. Since the left side is of identical construction it was reasonable to conclude that the total system weight will be less than 11.5 pounds. This represents a total weight saving of 12 pounds per system.

Firing tests were conducted with a system chassis on 18

December 1968. The results showed that the explosive materials had caused a greater dishing effect in the aluminum than in the stainless steel, however, the containment was fully as good.

The following minor modifications were made to the design:

- (a) The support area around the fasteners which hold the explosive to the covers was strengthened to preclude the possibility of pulling the fasteners through the cover.
- (b) The material of the sealing gasket around the periphery of the covers was changed from a silicone rubber to a neoprene. The high temperature characteristics of the silicone are no longer needed. The neoprene will improve the tear and abrasion resistance of the seal.

The design is soun	d. All of the drawings have been	revised
to include the changes.	Orders for part numbers](right
side assy.) and	(left side assy.) will provide t	he updated
parts.		

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Approved For Release 2002/08/29 : CJA-RDP71B00697R001800110020-6

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	Prepare	ed Under
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